

NEW CLAIMS 15-17

15. A reinforced formed part comprising  
a hollow metal external formed part having an internal  
differing shape in at least one of a longitudinal shape and  
cross-sectional shape and a metal foam located within said  
hollow metal external formed part wherein the metal foam  
has a shape substantially identical to the shape of the  
hollow metal external formed part and wherein said metal  
foam has a structure having high resistance to deformation  
and said metal foam contacts said hollow external formed  
part and fills same so as to improve (1) the elastic  
properties, (2) the load bearing capacity and (3) the  
resistance to deformation of the external formed part of  
said reinforced formed part.

16. A reinforced formed part comprising  
a hollow metal external formed part having an internal  
shape and a metal foam located within said hollow metal  
external formed part wherein the metal foam has a shape  
substantially identical to the shape of the hollow metal  
external formed part and wherein said metal foam has a  
structure having high resistance to deformation and said  
metal foam contacts said hollow external formed part and

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fills same so as to improve (1) the elastic properties, (2) the load bearing capacity and (3) the resistance to deformation of the external formed part, said reinforced formed part being formed by the following steps:

forming a hollow metal external formed part;

locating a prepreg body within the hollow metal

external formed part;

providing a metal foam material within said hollow external formed part by foaming the prepreg body within said hollow external formed part; and

simultaneously with the foaming contacting said metal foam material with at least a part of the hollow metal external formed part, so that the foam rests in form-fit relation against the hollow metal external formed part.

17. A process for a production for a reinforced formed part comprising the steps of:

forming a hollow metal external formed part;

locating a prepreg body within the hollow metal external formed part;

providing a metal foam material within said hollow external formed part by foaming the prepreg body within said hollow external formed part; and

simultaneously with the foaming contacting said metal  
foam material with at least a part of the hollow metal  
external formed part, so that the foam rests in form-fit  
relation against the hollow metal external formed part.

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